

Arkansas

SOURCE: Arkansas Pollution Control and Ecology Commission Regulation 2, Regulation Establishing Water Quality Standards for Surface Waters of the State of Arkansas, October 28, 2002, Chapter 3 Water Body Uses, http://www.adeq.state.ar.us/regs/files/reg02_final_021028.pdf

Section 2.302 Designated Uses

The designated uses are defined as follows:

- A. Extraordinary Resource Waters** - This beneficial use is a combination of the chemical, physical and biological characteristics of a waterbody and its watershed which is characterized by scenic beauty, aesthetics, scientific values, broad scope recreation potential and intangible social values.
- B. Ecologically Sensitive Waterbody** - This beneficial use identifies segments known to provide habitat within the existing range of threatened, endangered or endemic species of aquatic or semi-aquatic life forms.
- C. Natural and Scenic Waterways** - This beneficial use identifies segments which have been legislatively adopted into a state or federal system.
- F. Fisheries** - This beneficial use provides for the protection and propagation of fish, shellfish and other forms of aquatic life. It is further subdivided into the following subcategories:
 - (1) **Trout** - water which is suitable for the growth and survival of trout (Family: Salmonidae).
 - (2) **Lakes and Reservoirs** - water which is suitable for the protection and propagation of fish and other forms of aquatic life adapted to impounded waters. Generally characterized by a dominance of sunfishes such as bluegill or similar species, black basses and crappie. May include substantial populations of catfishes such as channel, blue and flathead catfish and commercial fishes including carp, buffalo and suckers. Forage fishes are normally shad or various species of minnows. Unique populations of walleye, striped bass and/or trout may also exist.
 - (3) **Streams** - water which is suitable for the protection and propagation of fish and other forms of aquatic life adapted to flowing water systems whether or not the flow is perennial.
 - (a) **Ozark Highlands Ecoregion** - Streams supporting diverse communities of indigenous or adapted species of fish and other forms of aquatic life. Fish communities are characterized by a preponderance of sensitive species and normally dominated by a diverse minnow community followed by sunfishes and darters. The community may be generally characterized by the following fishes:

Key Species

Duskystripe shiner
Northern hogsucker
Slender madtom
"Rock" basses
Rainbow and/or Orangethroat darters
Smallmouth bass

Indicator Species

Banded sculpin
Ozark madtom
Southern redbelly dace
Whitetail shiner
Ozark minnow

- (b) **Boston Mountains Ecoregion** - Streams supporting diverse communities of indigenous

or adapted species of fish and other forms of aquatic life. Fish communities are characterized by a major proportion of sensitive species; a diverse, often darter-dominated community exists but with nearly equal proportions of minnows and sunfishes. The community may be generally characterized by the following fishes:

<u>Key Species</u>	<u>Indicator Species</u>
Bigeye shiner	Shadow bass
Black redhorse	Wedgespot shiner
Slender madtom	Longnose darter
Longear sunfish	Fantail darter
Greenside darter	
Smallmouth bass	

- (c) Arkansas River Valley Ecoregion - Streams supporting diverse communities of indigenous or adapted species of fish and other forms of aquatic life. Fish communities are characterized by a substantial proportion of sensitive species; a sunfish- and minnow-dominated community exists but with substantial proportions of darters and catfishes (particularly madtoms). The community may be generally characterized by the following fishes:

<u>Key Species</u>	<u>Indicator Species</u>
Bluntnose minnow	Orangespotted sunfish
Golden redhorse	Blacksidedarter
Yellow bullhead	Madtoms
Longear sunfish	
Redfin darter	
Spotted bass	

- (d) Ouachita Mountains Ecoregion - Streams supporting diverse communities of indigenous or adapted species of fish and other forms of aquatic life. The fish community is characterized by a major proportion of sensitive species; a minnow-sunfish-dominated community exists, followed by darters. The community may be generally characterized by the following fishes:

<u>Key Species</u>	<u>Indicator Species</u>
Bigeye shiner	Shadow bass
Northern hogsucker	Gravel chub
Freckled madtom	Northern studfish
Longear sunfish	Striped shiner
Orangebelly darter	
Smallmouth bass	

- (e) Typical Gulf Coastal Ecoregion - Streams supporting diverse communities of indigenous or adapted species of fish and other forms of aquatic life. Fish communities are characterized by a limited proportion of sensitive species; sunfishes are distinctly dominant followed by darters and minnows. The community may be generally characterized by the following

fishes:

<u>Key Species</u>	<u>Indicator Species</u>
Redfin shiner	Pirate perch
Spotted sucker	Warmouth
Yellow bullhead	Spotted sunfish
Flier	Dusky darter
Slough darter	Creek chubsucker
Grass pickerel	Banded pygmy sunfish

- (f) Springwater-influenced Gulf Coastal Ecoregion -Streams supporting diverse communities of indigenous or adapted species of fish and other forms of aquatic life. Fish communities are characterized by a substantial proportion of sensitive species; sunfishes normally dominate the community and are followed by darters and minnows. The community may be generally characterized by the following fishes:

<u>Key Species</u>	<u>Indicator Species</u>
Redfin shiner	Pirate perch
Blacktail redhorse	Golden redhorse
Freckled madtom	Spotted bass
Longear sunfish	Scaly sand darter
Creole darter	Striped shiner
Grass pickerel	Banded pygmy sunfish

- (g) Least-altered Delta Ecoregion - Streams supporting diverse communities of indigenous or adapted species of fish and other forms of aquatic life. Fish communities are characterized by an insignificant proportion of sensitive species; sunfishes are distinctly dominant followed by minnows. The community may be generally characterized by the following fishes:

<u>Key Species</u>	<u>Indicator Species</u>
Ribbon shiner	Pugnose minnow
Smallmouth buffalo	Mosquitofish
Yellow bullhead	Pirate perch
Bluegill	Tadpole madtom
Bluntnose darter	Banded pygmy sunfish
Largemouth bass	

- (h) Channel-altered Delta Ecoregion- Streams supporting diverse communities of indigenous or adapted species of fish and other forms of aquatic life. Fish communities are characterized by an absence of sensitive species; sunfishes and minnows dominate the population followed by catfishes. The community may be generally characterized by the following fishes:

<u>Key Species</u>	<u>Indicator Species</u>
Blacktail shiner	Mosquitofish

Key Species

Drum

Carp

Channel catfish

Green sunfish

Spotted gar

Indicator Species

Gizzard shad

Emerald shiner